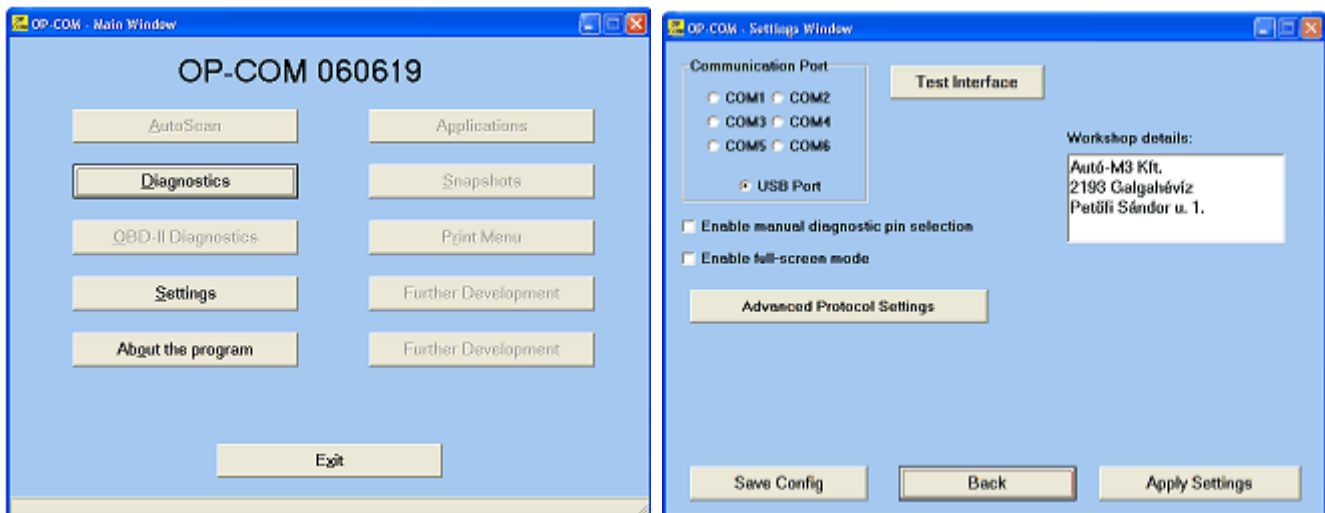# OP-COM - PC based Opel diagnostic program

OP-COM is a PC based diagnostic program.

It covers almost all Opel cars, **even new cars with CAN-BUS based diagnostic**, such as **Vectra-C**, **Astra-H**, **Zafira-B**.

The program lets you to read out and clear fault codes, shows you live data, lets you to perform output test, and supports remote, and key programming.

The program supports many control units, like Engine, Automatic Transmission, ABS, Airbag, Engine Cooling module, Instrument Cluster, Electronic Climate Control, Body Control Unit, just to name a few examples.
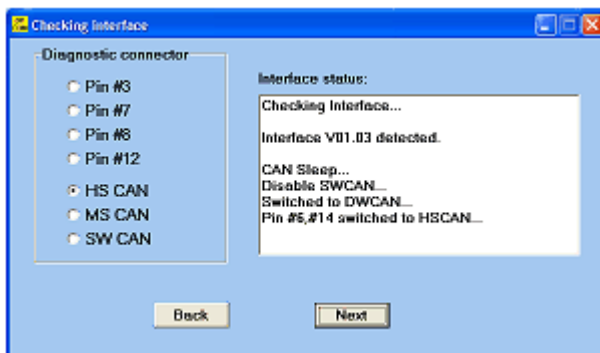

Since Opel uses many pin in the OBD connector, the diagnostic interface works as a multiplexer, and selects the appropriate pin for communication.

PIN3, PIN7, PIN8, PIN12 = Serial Link (ISO9141, KW81, KW82, KWP2000)

PIN6-PIN14   HSCAN - Dual-wire, High Speed CAN-BUS, 500 kbps
PIN3-PIN11   MSCAN - Dual-wire, Medium Speed CAN-BUS, 95 kbps
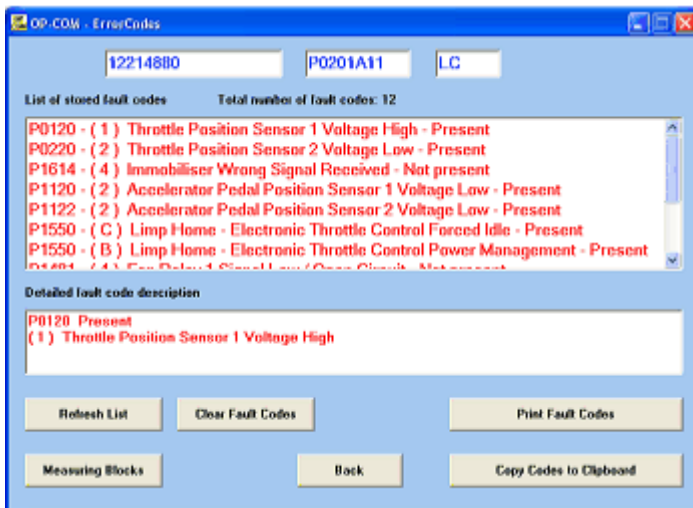PIN1   SWCAN - Single-wire, Low Speed CAN-BUS, 33.3 kbps
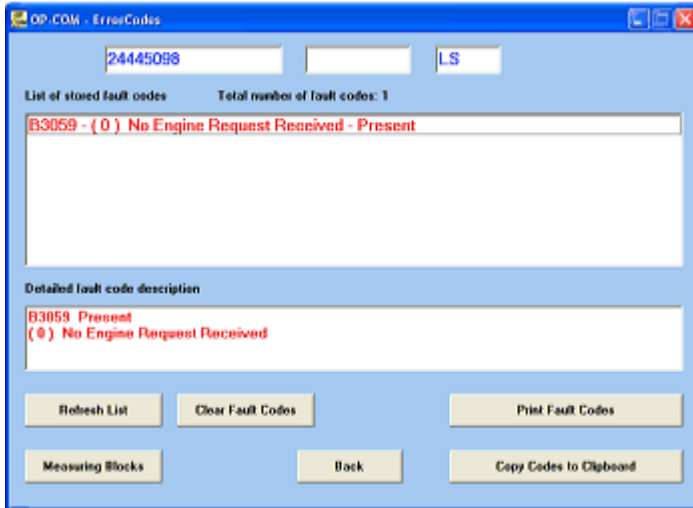

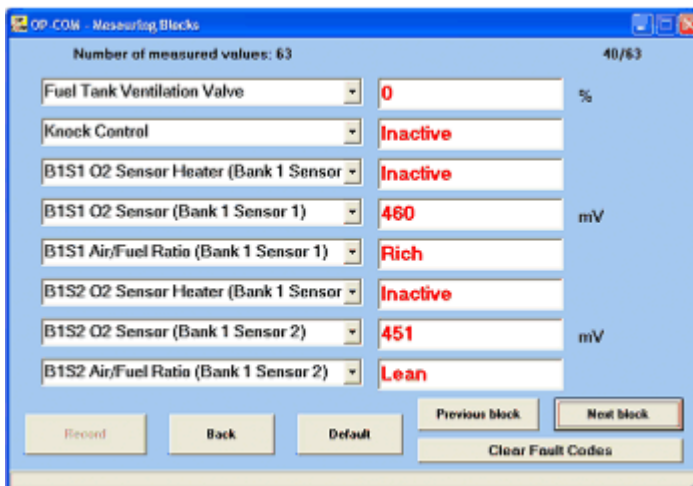Fault codes will be shown with all available information:
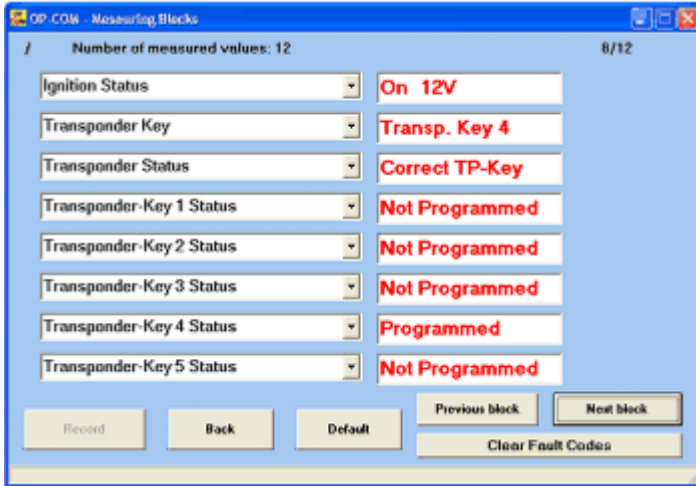
Full fault code text description
Full status information (Present, Not present, Intermittent)

You can print out, save, or copy the fault codes to any other application.

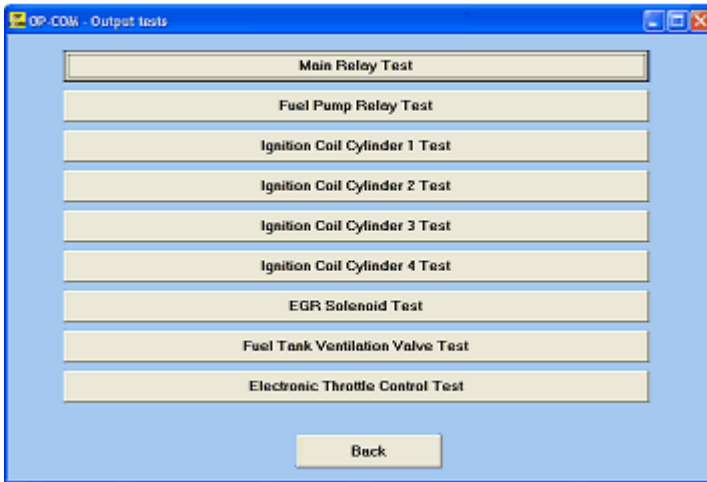From the fault codes window, you can go directly to the measuring blocks window.

The program shows you measuring block information on many control module, you can choose anything from the list on your own. The program is capable of showing 8 measuring block parameter simultaneously. The sample rate is depends mostly on the communication protocol. For example, older system, like Omega-B X 25 DT Engine (ISO-9141-2) can be very slow, during communication, while newer Multec, or Bosch units are faster (using KWP-2000), and the newest CAN based control units are very fast!
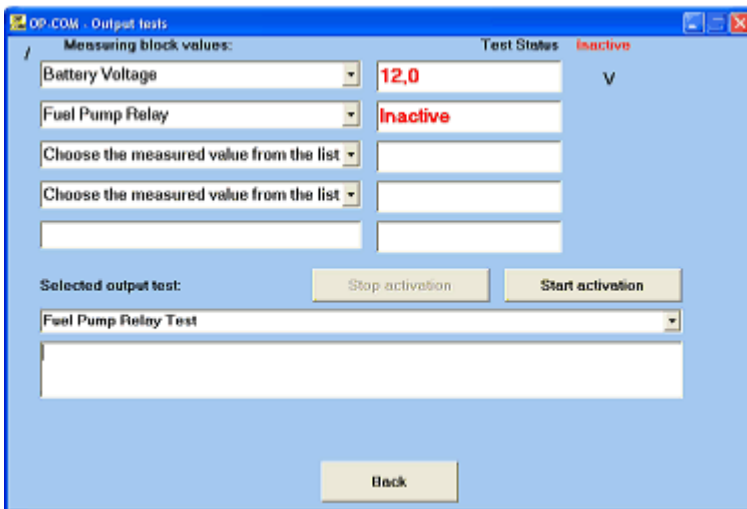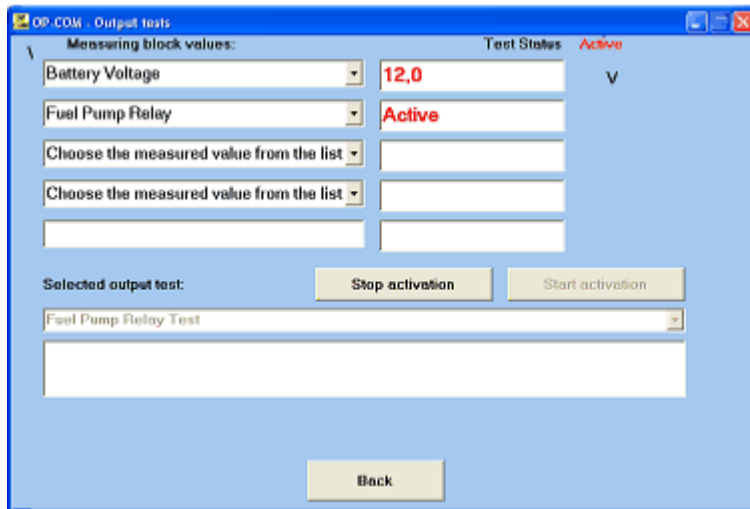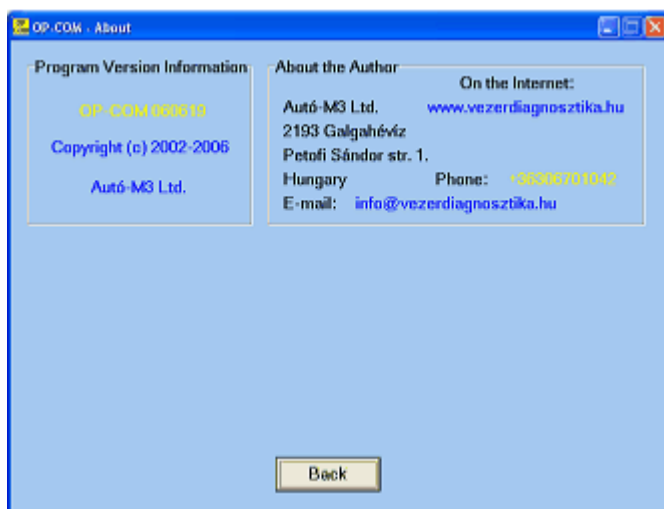
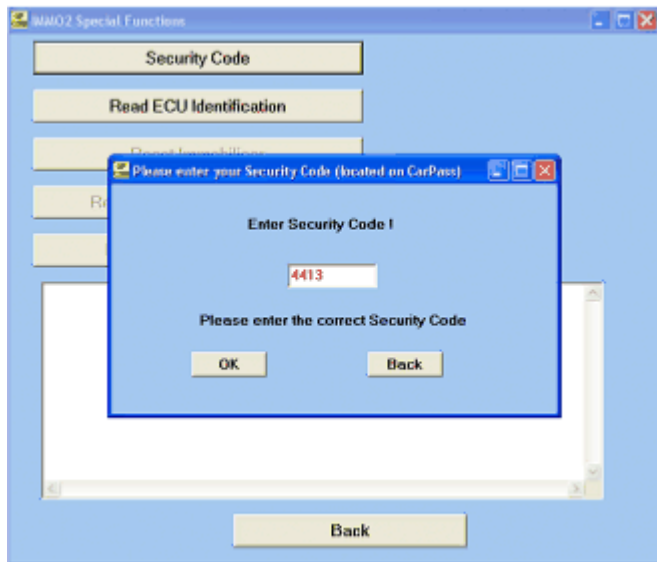You can also run output tests on many controllers.

You will get a feedback on the state of the activated output. This will helps you to find the failed components more easily.

With OP-COM, you can **learn keys to immobiliser**, and **remote keys to the central door locking**, or **alarm**.

You can also **reset**, and **program** the following immobiliser related items: **ECM, BCM, IPC**.

You will need the vehicle **security code**, which can be found on the **CAR-PASS**.

You can also **reset**, and **program** the **Service interval reminder** on Astra-G, Zafira, Corsa-C, Meriva, Tigra-B

You can **code SAB6**, and **SAB8 airbags** with the software.

The **diagnostic inteface is USB port based,** so there will be **NO COMPATIBILITY ISSUES**, with serial to USB converters.

The speed of the communication over the USB-BUS is enough to handle the awesome speed of the High-Speed CAN-BUS systems, which is currently 500kbps. This is the main reason, why only the USB port based interface is available for CAN-BUS.

Compared to the TECH2, which is the dealers tool (with a 32 MB card+CANdi interface), the price of OP-COM is quite affordable.
Not to mention the **free software updates**, which can be downloaded from the internet.